SEQUENCE LISTING

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<110>  Medical Research Council

<120>  Obesity gene

<130>  18396/1140

<140>  08/484,629
<141>  2000-01-18

<150>  PCT/GB99/02658
<151>  1998-12-08

<160>  37

<170>  PatentIn version 3.2

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<212>  DNA
<213>  Rattus sp.

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cgggcgcgtg aaaatgcctc ctgcagtgga ccctgcggaa ttgttcgtgt tgaccgagcg     180

ctaccgacag taccgggaga cggtgcgcgc tctcaggcga gagttcacat tggaggtgcg     240

agggaaattg cacgaggccc gagccggggt tctggctgag cgcaaggcgc aagaggccat     300

cagagagcac caggagctga tggcctggaa ccgggaggag aaccggagac tgcaggaact     360

acggatagct aggttgcagc tcgaagcaca ggcccaggag ctgcggcagg ctgaggtcca     420

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actgcaggag gaggccaaaa acttcatcac tcgggagaac ctggaggcac ggatagaaga     540

ggccttggac tctccgaaga gttataactg ggcggtcacc aaagaagggc aggtggtcag     600

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agaagccaag agctgtctcc tgagtttctt ggaatagtgt gagcccaatg tttcctgctt     900

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<212> PRT
<213> Rattus sp.

<400> 2

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Pro Pro Ala Leu Ser Leu Val Gly Arg Val Leu Met Pro Pro Ala Val
            35   40   45

Asp Pro Ala Glu Leu Phe Val Leu Thr Glu Arg Tyr Arg Gln Tyr Arg
        50   55   60

Glu Thr Val Arg Ala Leu Arg Arg Glu Phe Thr Leu Glu Val Arg Gly
65   70   75   80

Lys Leu His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Gln
                85   90   95

Glu Ala Ile Arg Glu His Gln Glu Leu Met Ala Trp Asn Arg Glu Glu
                100   105   110

Asn Arg Arg Leu Gln Glu Leu Arg Ile Ala Arg Leu Gln Leu Glu Ala
            115   120   125

Gln Ala Gln Glu Leu Arg Gln Ala Glu Val Gln Ala Gln Arg Ala Gln
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Glu Glu Gln Ala Trp Val Gln Leu Lys Glu Gln Glu Val Leu Lys Leu
145   150   155   160

Gln Glu Glu Ala Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
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Lys Glu Gly Gln Val Val Arg Asn
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<212> DNA
<213> Homo sapiens

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caggaagagg tgaaaaactt catcacccga gagaacctgg aggcacgggt ggaagcagca   540

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<212> PRT
<213> Homo sapiens

<400> 4

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            20   25   30

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        35                  40                  45


Asp Pro Ala Glu Phe Phe Val Leu Met Glu Arg Tyr Gln His Tyr Arg
        50                  55                  60


Gln Thr Val Arg Ala Leu Arg Met Glu Phe Val Ser Glu Val Gln Arg
65                  70                  75                  80


Lys Val His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Leu
                85                  90                  95


Lys Asp Ala Ala Glu His Arg Glu Leu Met Ala Trp Asn Gln Ala Glu
            100                 105                 110


Asn Arg Arg Leu His Glu Leu Arg Ile Ala Arg Leu Arg Gln Glu Glu
            115                 120                 125


Arg Glu Gln Glu Gln Arg Gln Ala Leu Glu Gln Ala Arg Lys Ala Glu
        130                 135                 140


Glu Val Gln Ala Trp Ala Gln Arg Lys Glu Arg Glu Val Leu Gln Leu
145                 150                 155                 160


Gln Glu Glu Val Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
                165                 170                 175


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<212>  DNA
<213>  Mus musculus

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cggacgggtg cagacgcctc ccgccgtgga ccctgcggaa ttcttcgtgt tgaccgagcg     180
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4

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cacggagcac cgggagctga tggcctggaa ccgggacgag aaccggcgaa tgcaggagct      360

acggatagcg aggttgcagc tggaagcaca ggcccaggag gtgcagaagg ctgaggccca      420

gcgccagagg gctcaggagg agcaggcttg ggtgcaactg aaagagcaag aagtgctcaa      480

gctgcaggag gaggcaaaaa acttcatcac tcgggagaac ctggaggcac ggatagaaga      540

agcgttggac tctccgaaga gttacaactg ggccgtcacc aaagaagggc aggtggtcag      600

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ggactggact gtgtccctct agaagccaag cttgtcttgt aagtctcttg gagtcctgtg      900

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<213>   Mus musculus

<400>   6

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            20                  25                  30


Pro Pro Ala Lys Ser Lys Val Gly Arg Val Gln Thr Pro Pro Ala Val
        35                  40                  45


Asp Pro Ala Glu Phe Phe Val Leu Thr Glu Arg Tyr Gly Gln Tyr Arg
    50                  55                  60


Glu Thr Val Arg Ala Leu Arg Leu Glu Phe Thr Leu Asp Val Arg Arg
65                  70                  75                  80


Lys Leu His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Gln
                85                  90                  95
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5

Gln Ala Ile Thr Glu His Arg Glu Leu Met Ala Trp Asn Arg Asp Glu
            100   105   110

Asn Arg Arg Met Gln Glu Leu Arg Ile Ala Arg Leu Gln Leu Glu Ala
        115   120   125

Gln Ala Gln Glu Val Gln Lys Ala Glu Ala Gln Arg Gln Arg Ala Gln
    130   135   140

Glu Glu Gln Ala Trp Val Gln Leu Lys Glu Gln Glu Val Leu Lys Leu
145   150   155   160

Gln Glu Glu Ala Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
                165   170   175

Ile Glu Glu Ala Leu Asp Ser Pro Lys Ser Tyr Asn Trp Ala Val Thr
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Lys Glu Gly Gln Val Val Arg Asn
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<213> Homo sapiens

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6

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gctctgggga gagcagcaca gggtgtcaag tgaccagtct tcaggaggct tctctctctg   1380

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<400> 8

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<210> 10
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<213>  Rattus sp.

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10

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tcccactcta cccgagactc cagggacgcg atgggccaga cagcaagagc tccgcctacg      960

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11

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aaaacttcat cactcgggag aacctggagg cacggataga agaggccttg gactctccga    2280

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ctctcaggcc caaataagga cagtgcttgc ctagggactg gatattgggg tagaaattgg    2400

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gaagttccta tcacacagaa gatcagactg gactgtcccc tctagaagcc aagagctgtc    2580

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gaaagcaaag ccttttgtta tgtggcttgc tttttcttgt tgtagaataa gtttatttgt    2700

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gactgcccag ccagctagcc tcagagaatg catctgcgta tgcttgcctg gcgctggaat    3180

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<210> 17
<211> 44576
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<222>  (1)..(44576)
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18

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19

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21

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23

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24

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27

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28

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29

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30

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31

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32

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33

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34

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35

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36

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37

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38

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Pro Thr Leu Leu Leu Leu Pro Val Arg Gly Pro Arg Pro Arg Ser Phe
            20   25   30

Ser Ala Pro Phe Ser Ser Gln Asp Ser
            35   40

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<210>  33
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<210>  34
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<210>  35
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Pro Arg Pro Arg Ser Phe Ser Ala Pro Phe Ser Ser Gln Asp Ser
1                   5                   10                  15
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